TOSHIBA

The power to open people's eyes

SD-42HKSB/SD-42HKSE

Owners Manual

SECTION 1. OWNER'S MANUAL

1-1. INTRODUCTION

■ Safety Precautions

WARNING

RISK OF ELECTRIC SHOCK DO NOT OPEN

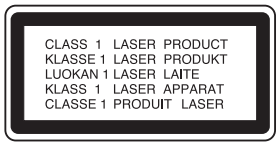
WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: Do not install this equipment in a confined space such as a book case or similar unit.



CAUTION:

This Digital Video Disc Player employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference, should the unit require maintenance, contact an authorized service location-see service procedure.

Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION: The apparatus shall not be exposed to water, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.

Notes on copyrights:

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyright material without permission.

This product is equipped with copy protection measures developed by Macrovision. Copy protection signals are recorded on some discs. When recording these discs on a VCR, picture noise will appear during playback.

This product incorporates copyright protection technology that is protected by certain U.S. patent claims and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

SERIAL NUMBER: The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase.

Model No. _____

Serial No. _____

1-1. INTRODUCTION

■ Some Dos and Don’ts on the Safe Use of Equipment

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured. So, please read the points below for your own safety. They are of a general nature, intended to help you with all your electronic consumer products and some points may not apply to the goods you have just purchased.

****

DO read the operating instructions before you attempt to use the equipment.
DO ensure that all electrical connections (including the mains plug, extension leads and inter- connections between the pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug before making or changing connections.
DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.
DO be careful with glass panels or doors on equipment

****

DON'T remove any fixed cover as this may expose dangerous voltages.
DON'T obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.
DON'T allow electrical equipment to be exposed to dripping or splashing, or objects filled with liquids, such as vases, to be placed on the equipment.
DON'T place hot objects or naked flame sources such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.
DON'T use makeshift stands and NEVER fix legs with wood screws - to ensure
complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.
DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.
DON'T listen to headphones at high volume, as such use can permanently damage your hearing.
DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and make sure that your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.
DON'T continue to operate the equipment if you are in any doubt about it working
normally, or if it is damaged in any way -switch off, withdraw the mains plug and consult your dealer.

ABOVE ALL
-–NEVER let anyone especially children push anything into holes, slots or any other opening in the case - this could result in a fatal electrical shock;

-–NEVER guess or take chances with electrical equipment of any kind
-–it is better to be safe than sorry!

****

1-1. INTRODUCTION

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About the symbols for instructions

⚠ Indicates hazards likely to cause harm to the unit itself or other material damage.

Indicates special operating features of this unit.

Indicates tips and hints for making the task easier.

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1-1. INTRODUCTION

■ Before Use

Playable Discs

DVD VIDEO	DVD (8 cm / 12 cm disc)
COMPACT disc DIGITAL VIDEO	Video CD (VCD) (8 cm / 12 cm disc)
COMPACT disc DIGITAL AUDIO	Audio CD (8 cm / 12 cm disc)

In addition, this unit can play a CD-R or CD-RW that contains audio titles or MP3 files.

Notes

– Depending on the conditions of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs cannot be played on the unit.
– The unit cannot play the CD-R/RW discs that contain no data, or contain different kinds of formatted data other than MP3 and CD-DA data.
– Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
– Do not use irregular shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available, or other functions may be added.
Refer also to the instructions supplied with the DVDs and Video CDs. Some DVDs made for business purposes may not be played on the unit.

Regional code of the DVD receiver and DVDs

This DVD receiver is designed and manufactured for playback of region “2” encoded DVD software. The region code on the labels of some DVD discs indicates which type of receiver can play those discs. This unit can play only DVD discs labeled “2 ” or “ALL”. If you try to play any other discs, the message “Check Regional Code” will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

Note on DTS-encoded CDs

When playing DTS-encoded CDs, excessive noise may be exhibited from the analog stereo output. To avoid possible damage to the audio system, turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output of the unit.

Disc-related terms

Title (DVD only)

The main film content or accompanying feature content or additional feature content, or music album.
Each title is assigned a title reference number enabling you to locate it easily.

Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles.
A title is composed of one or several chapters. Each chapter is assigned a chapter number, enable you to locate the chapter you want. Chapter numbers may not be recorded on all discs.

Track (Video CD and audio CD only)

Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

Scene

On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called “Scenes”. Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.
A scene is composed of one or several tracks.

Types of video CDs

There are two types of video CDs:

Video CDs equipped with PBC (Version 2.0)

PBC (Playback control) functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc.

Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

1-1. INTRODUCTION

Precautions

Handling the unit

When shipping the unit
The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

When setting the unit
The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc.

To keep the exterior surfaces clean
Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber of plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

Cleaning the unit

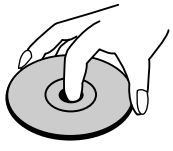
To clean the cabinet
Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

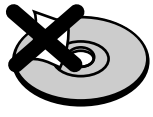
To obtain a clear picture
The DVD receiver is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality will be poor.
Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)
For details, please contact your nearest dealer.

Notes on Discs

Handling discs

Do not touch the playback side of the disc.
Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.



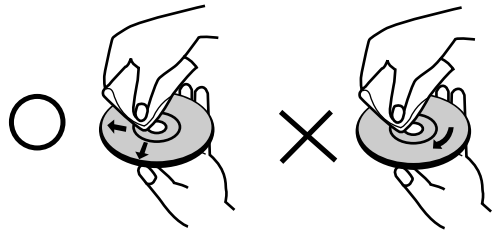


Storing discs

After playing, store the disc in its case.
Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

About Symbols

About the ⃠ symbol display

" ⃠ " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc.

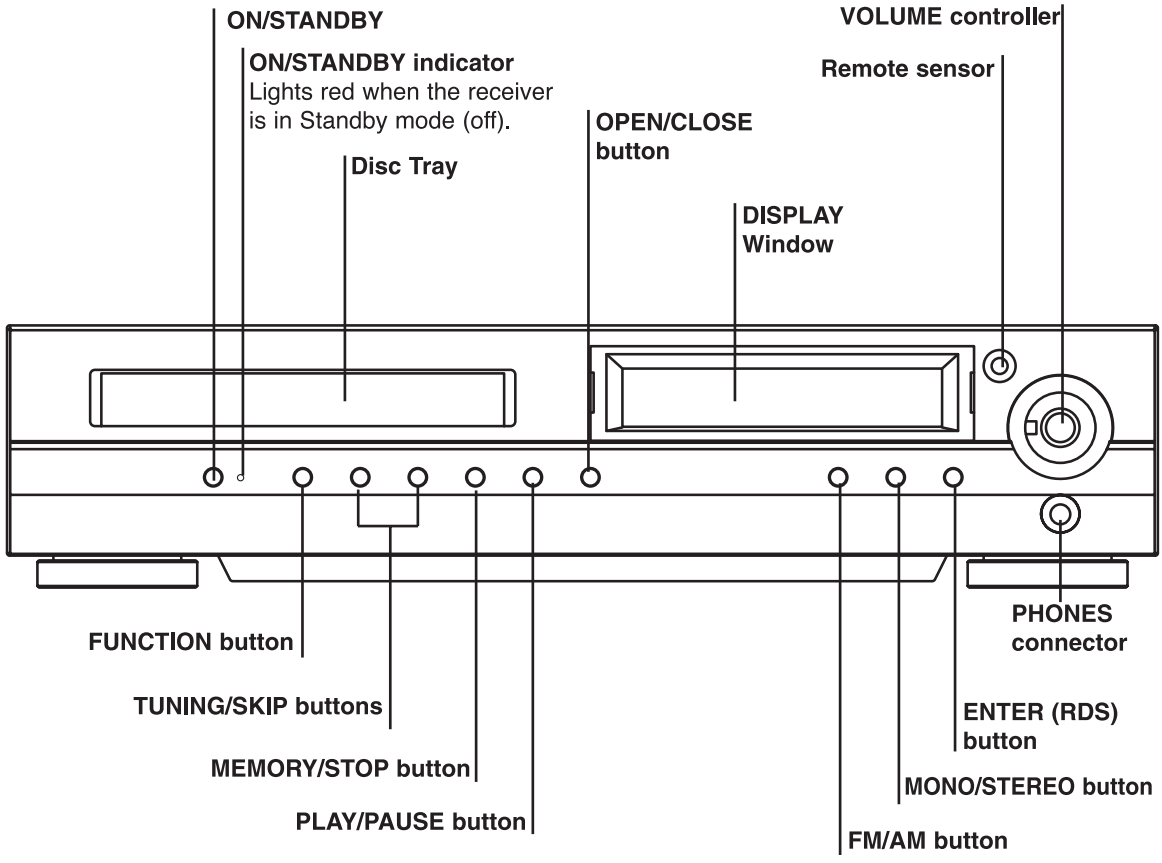
About the disc symbols for instructions

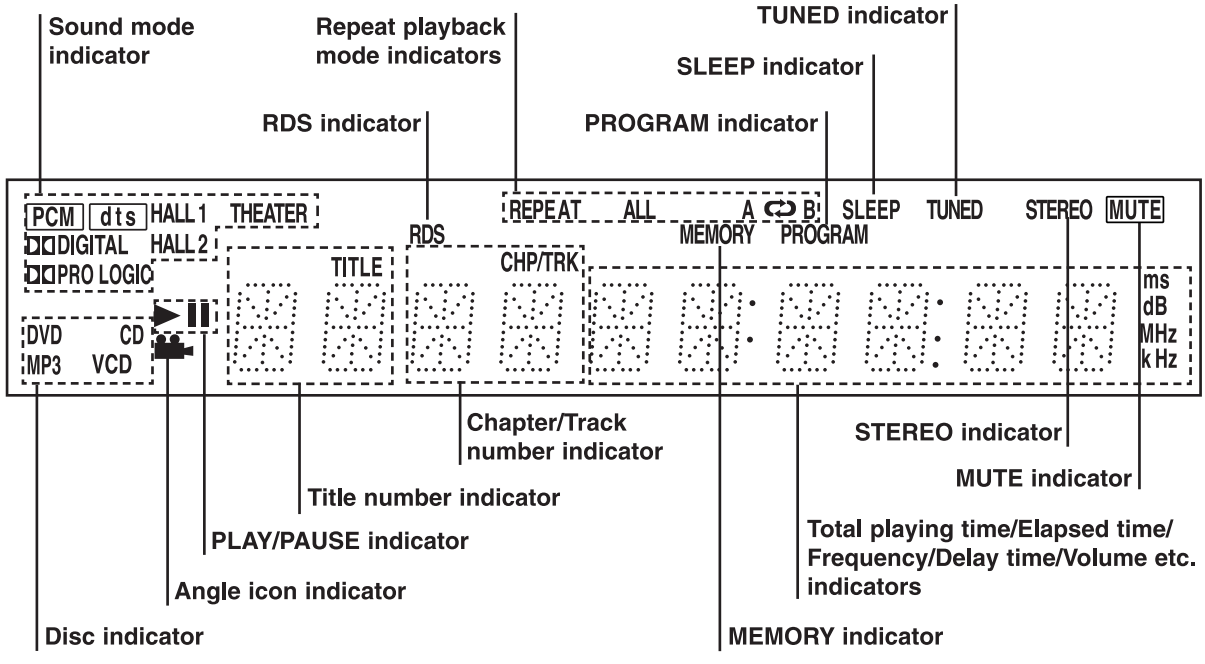
When a section in this manual includes the following icons, the data provided herein is applicable only to the software represented by that icon.

- DVD — DVD
- VCD2.0 — Video CDs with the PBC (playback control) function.
- VCD1.1 — Video CDs without the PBC (playback control) function.
- CD — Audio CDs.
- MP3 — MP3 disc.

1-1. INTRODUCTION

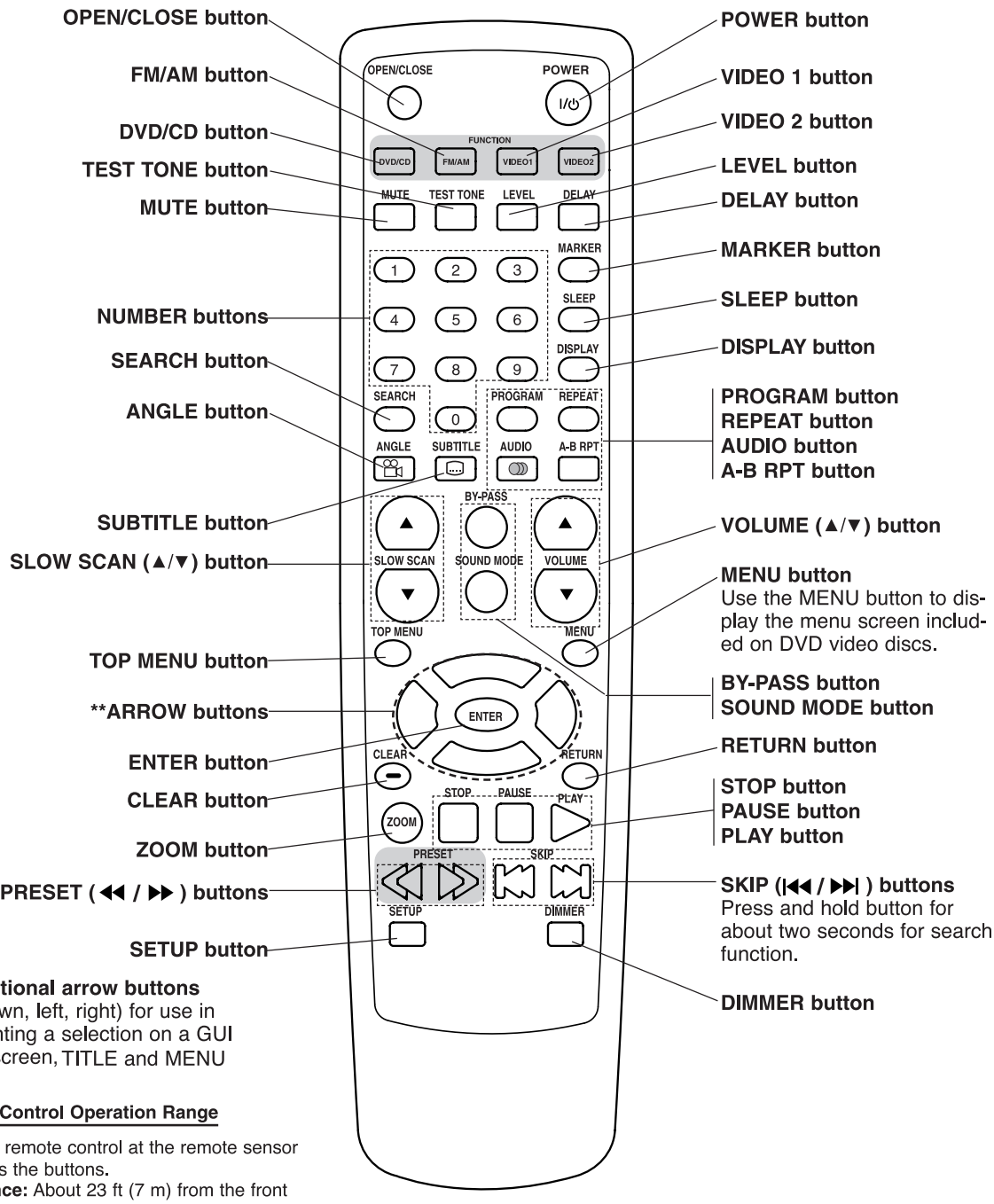
■ Front Panel and Display Window





1-1. INTRODUCTION

■ Remote Control



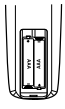
**** Directional arrow buttons**
(up, down, left, right) for use in highlighting a selection on a GUI menu screen, TITLE and MENU screen.

Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

- **Distance:** About 23 ft (7 m) from the front of the remote sensor
- **Angle:** About 30° in each direction of the front of the remote sensor

Remote control battery installation



Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with ⊕ and ⊖ aligned correctly

⚠ Caution

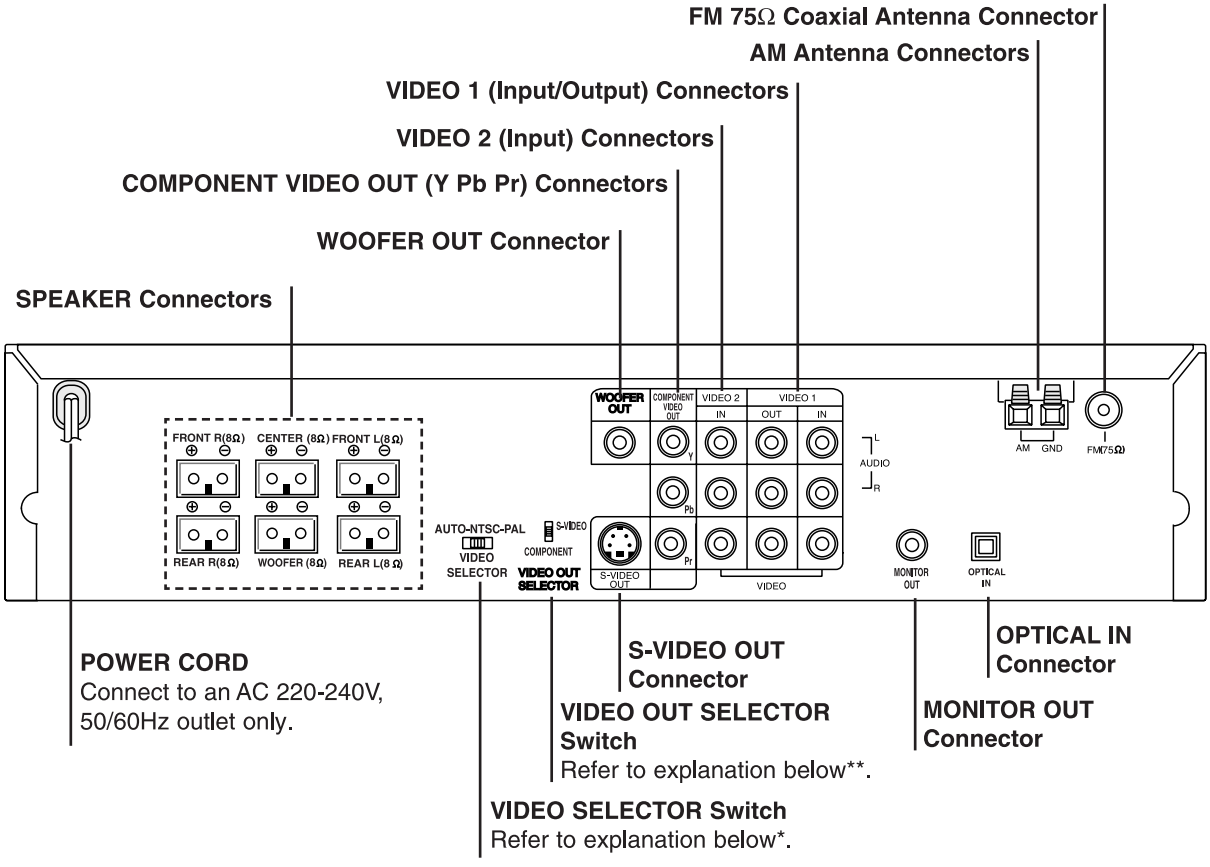
Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

Notes

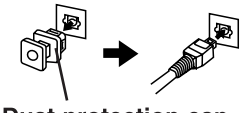
- Do not expose the remote sensor of the Receiver to a strong light source such as direct sunlight or illumination (especially high-frequency lighting) when using the remote control.
- When there is an obstacle between the Receiver and the transmitter, the remote control transmitter may not operate.
- When using the remote control, press the button at intervals of about 1 second to ensure the correct mode of operation.
- Do not throw the batteries into a fire. Dispose off used batteries in a designated disposal area.

1-1. INTRODUCTION

■ Rear Panel



Dust protection cap
Remove the dust protection cap from the OPTICAL IN jack and connect the optical digital cable (not supplied) securely so that the configurations of both the cable and the connector match. Keep the dust protection cap and always reattach the cap when not using the connector to protect against dust intrusion.



Dust protection cap

⚠ **Caution**
Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

⚠ **Caution**
When you select the function mode to VIDEO1 using the VIDEO1 button on the remote control, the sound signal is output from the front L/R speakers, but there will be no video signal output from the Video Out jack of VIDEO 1. Use the Monitor Out jack when connecting to TV.

*** VIDEO SELECTOR switch**
You can enjoy NTSC or PAL discs by setting the VIDEO SELECTOR switch to choose the appropriate system.

PAL: Select when DVD receiver is connected with PAL-TV.

NTSC: Select when DVD receiver is connected with NTSC-TV.

AUTO: Select when DVD receiver is connected with Multi system TV.

- When the selected System Select switch does not coincide with the system of your TV, normal color picture may not be displayed.
- Set System Select switch when the power is turned off.

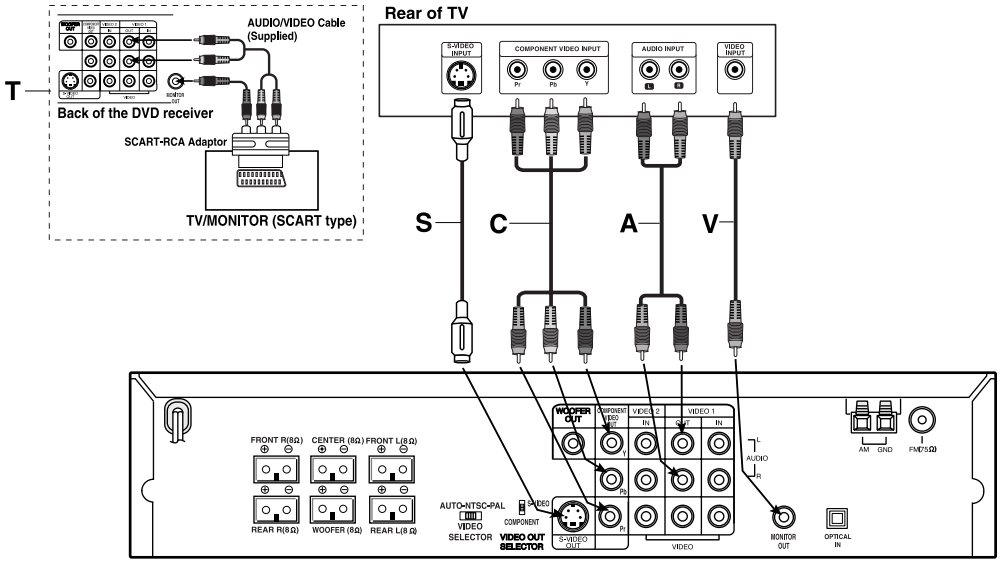
**** VIDEO OUT SELECTOR Switch**
Select either S-VIDEO OUT or COMPONENT VIDEO OUT, depending on how you connected the DVD Receiver to the TV.

1-2. PREPARATION

■ Connections

Connecting to a TV

Please turn off the Power of your TV, DVD receiver and other equipments before doing any connections.
Set the volume to low initially



- Make one of the following connections, depending on the capabilities of your existing equipment.
- When using the COMPONENT VIDEO OUT jacks, set the VIDEO OUT SELECTOR switch to COMPONENT. When using the S-VIDEO OUT jack, set the VIDEO OUT SELECTOR switch to S-VIDEO.

Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the player. Use one of the connections described below.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.

Caution

– Make sure the DVD Receiver is connected directly to the TV. Select the correct AV input on your TV.
– Do not connect your DVD Receiver to TV via your VCR. The DVD image could be distorted by the copy protection system.

Video connection

1. Connect the MONITOR OUT jack on the DVD Receiver to the video in jack on the TV using the video cable supplied **(V)**.
2. Connect the Left and Right AUDIO OUT jacks of the DVD Receiver to the audio left/right in jacks on the TV **(A)** using the supplied audio cables.

S-Video connection

1. Connect the S-VIDEO OUT jack on the DVD Receiver to the S-Video in jack on the TV using the optional S-Video cable **(S)**.
2. Connect the Left and Right AUDIO OUT jacks of the DVD Receiver to the audio left/right in jacks on the TV **(A)** using the supplied audio cables.

Component Video (Color Stream®) connection

1. Connect the COMPONENT VIDEO OUT jacks on the DVD Receiver to the corresponding in jacks on the TV using an optional Y Pb Pr cable **(C)**.
2. Connect the Left and Right AUDIO OUT jacks of the DVD Receiver to the audio left/right in jacks on the TV **(A)** using the supplied audio cables.

Tip

If you want to connect the DVD receiver to a TV with SCAR socket, use the supplied SCAR-RCA adaptor **(T)**.

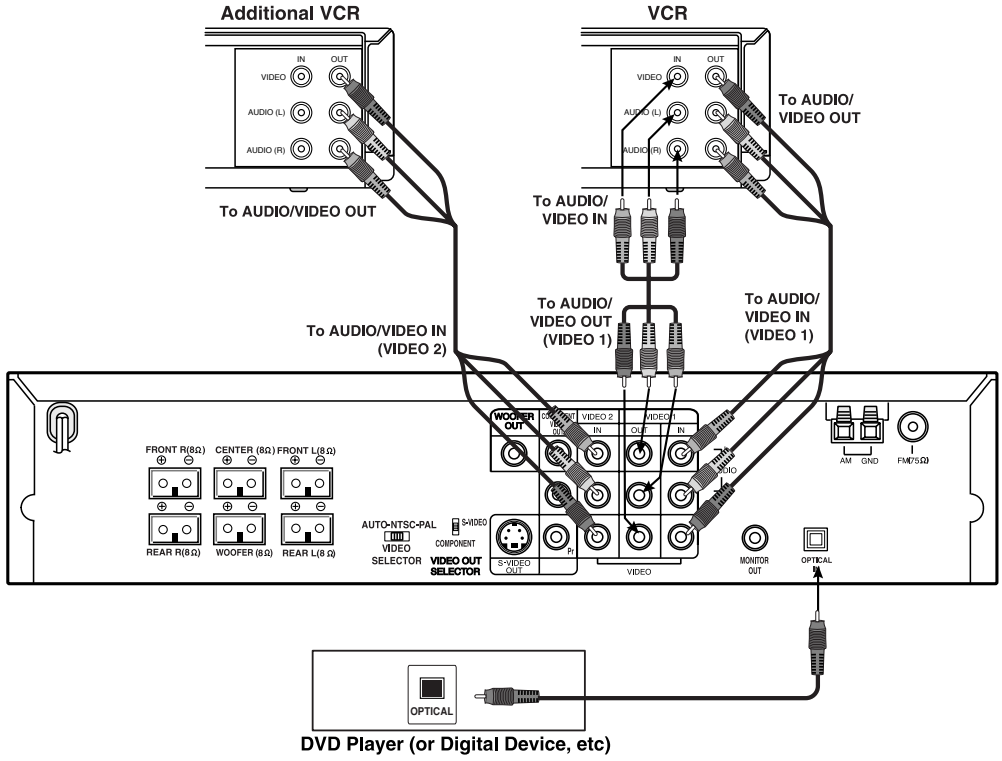
Note

- The signal of S-VIDEO OUT jack will output only when the function mode is selected to CD/DVD.

1-2. PREPARATION

Connecting to Optional Equipment

- Connect a TV(Monitor) to the MONITOR OUT or S-VIDEO OUT connector.
- Connect a VCR to the VIDEO 1 connectors.
- Connect a additional VCR to the VIDEO 2 connectors.
- Connect an optical output of DVD Player (or Digital Device etc) to the OPTICAL IN connector.



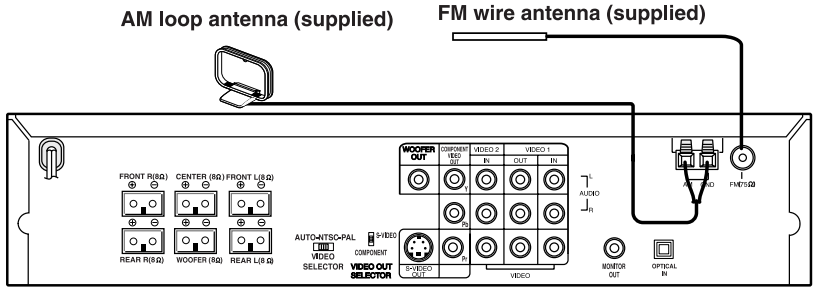
Notes

- When you select the function mode to VIDEO 1, a video signal is not output at the jack.
- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.

Antenna Connections

Connect the supplied FM/AM antennas for listening to the radio.

- Connect the AM loop antenna to the AM antenna connector.
- Connector the FM wire antenna to the FM 75Ω coaxial connector.



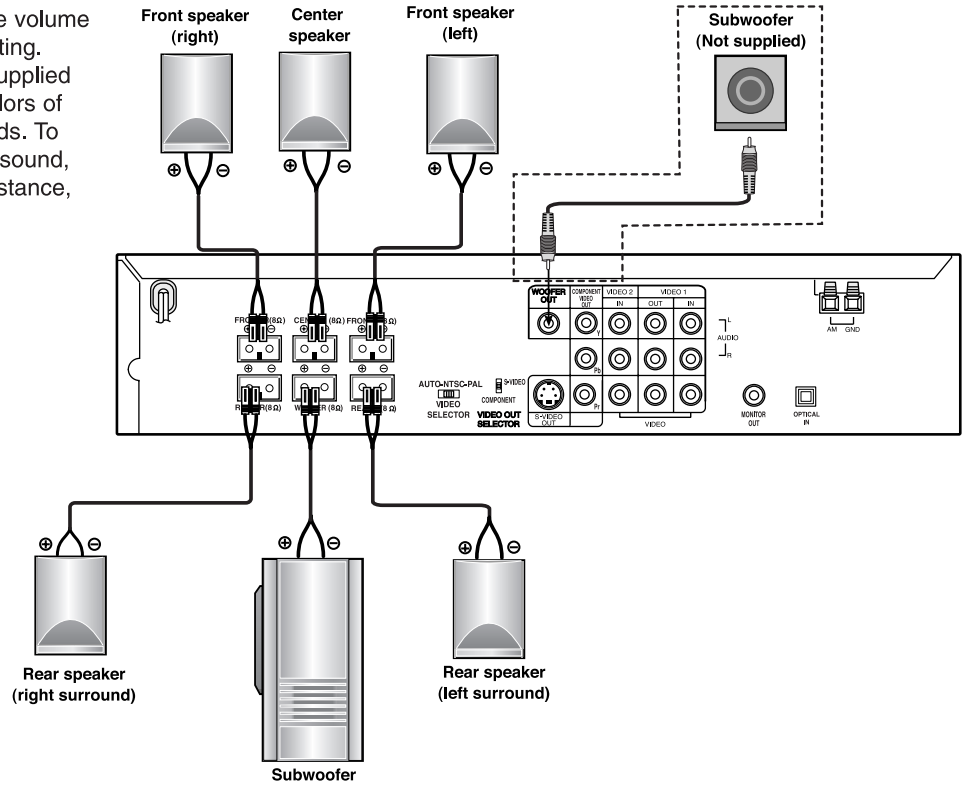
Notes

- To prevent noise pickup, keep the AM loop antenna away from the DVD Receiver and other component.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.

1-2. PREPARATION

Speaker System Connection

Turn off the Power first and set the volume knob to low initially before connecting. Connect the speakers using the supplied speaker cords by matching the colors of the terminals and those of the cords. To obtain the best possible surround sound, adjust the speaker parameters (distance, level, etc.).



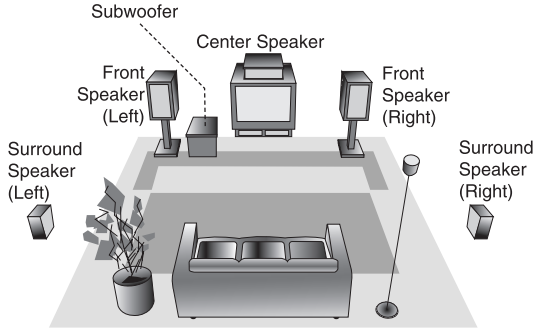
Notes

- Be sure to match the speaker cord to the appropriate terminal on the components: + to + and – to –. If the cords are reversed, the sound will be distorted and will lack base.
- If you use front speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.
- Do not disassemble the front cover of supplied speaker.

Speaker Position

In the case of normal position use the 6 speakers (2 front speakers, center speaker, 2 rear speakers and subwoofer). If you want to play the excellent bass sound, DTS digital surround or Dolby Digital surround, you should connect a subwoofer.

- **Front speakers**
  We recommend that the height of the tweeter of the front speakers and listener's ears are same height. And by hearing position set up the interval between speakers to 45 degree.
- **Center speaker**
  It is ideal that the center speakers and front speakers are same height. But in normally place it above or below the television.
- **Rear speakers**
  Place left and right behind the listening area. These speakers recreate sound motion and atmosphere. Required for surround playback. For best results, do not install the rear speakers too far behind the listening position and install them at or above the level of the listener's ears. It is also effective to direct the rear speakers towards a wall or ceiling to further disperse the sound.
  In case of the small sizes from the front to rear of the room, if the listener is near the rear wall set the rear speakers opposite each other, and set the rear speakers above 60 - 90 cm than the listener's ears, and set up it looks down.
- **Subwoofer**
  There is no fixed setting position. Place it at any appropriate position.



Speaker Positioning Example

1-2. PREPARATION

■ Before Operation

Delay

In Dolby Digital or Dolby Pro Logic mode it is assumed that the interval from the listener to each speakers is same. But if the interval from the center or rear left and right speakers to the listener is closer than the interval from the listener to the front left and right speaker, the sound of center or rear left and right speaker will reach first than the sound of the front speakers to the listener. In Dolby Digital and Dolby Pro Logic mode for improvement of this problem, by setting the delay time of the center or rear left and right speaker the sound from all speakers will arrive simultaneously to the listener.

Delay Time Setting

The interval from the speakers to the listener. If the distance from the listener to each speakers is same, in the Dolby Digital and Dolby Pro Logic mode the delay time of each speakers is as following.

In Dolby Digital mode

Center delay time : 0 ~ 5ms
Rear delay time: 0 ~ 15ms

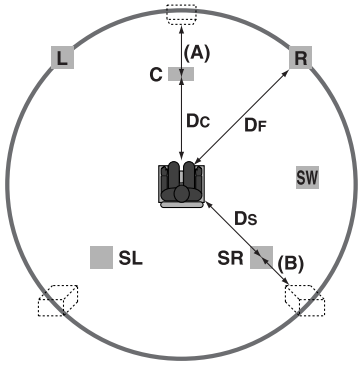
In Dolby Pro Logic mode

Center delay time : cannot setting
Rear delay time : 15-30ms

If the rear delay time is set in Dolby Digital mode, in the Dolby Pro Logic mode the delay time will be automatically set.
The delay time is 1 msec per 30 cm.
If the center and rear speakers are further than the front speakers from the listener, the delay time will be at minimum.

Surround delay time setting

If the distance of DS is equal to or longer than the DF in the left figure, set the Surround Delay Time as 0ms. Otherwise, change the setting according to the below.
Ex) If the distance from front speakers to the listener is 3 m and from rear speakers from the listener is 1.5 m, in the Dolby Digital mode the rear delay time is 5 msec.
3m (DF) - 1.5m (DS) = 1.5m (B)
1.5m (B) = 150cm / 30cm = 5msec



Center delay time setting

(Dolby Digital mode only)

If the distance of DF is equal to the distance of DC in the left figure, set the Center Delay Time as 0ms. Otherwise, change the setting according to the table below.
Ex) If the distance from the front speakers to the listener is 3m and from the center speaker to the listener is 2.4m, the center delay time is 2msec.
3m (DF) - 2.4m (DC) = 60cm (A)
60cm (A) / 30cm = 2msec

Setting the delay time in the Dolby Digital and Dolby Pro Logic mode

1 **Press DELAY.**
The current surround delay time is appeared in the display window.
You can select center delay time by pressing ◄/► in the Dolby Digital mode only.

2 **Press ▲/▼ to change the delay time.**

3 **If setting is complete, press DELAY.**

Notes

- You can adjust the center delay time only in the Dolby Digital mode and its delay time appears.
- Delay time setting is applicable to Dolby Digital and Dolby Pro Logic modes only.

Sound Adjustment

Test Tone

This function allows you can easily adjust the sound balance of the speakers from the listener's position.

1 **Select the test tone mode by pressing TEST TONE.**

- A hiss noise comes out for 2 seconds from each speakers in the following order;
  FL (Front Left) → C (Center) → FR (Front Right) ⊟→
  SR (Surround Right) → SL (Surround Left) ⊟→
  SW (Subwoofer) → FL (Front Left)

2 **You can adjust the sound level during operating the test tone, first press LEVEL then press ▲/▼ buttons, so that all speaker's sound level is same from the listener's position.**

- During operating the test tone, if you adjust the sound level, it will be paused in the current speaker channel.

3 **If setting is complete, press TEST TONE.**

Sound Mode

You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the program you want to listen to.

Press SOUND MODE repeatedly until the sound mode you want appears in the display window as below.

dts

Allows you to enjoy 5.1(or 6) discrete channels of high quality digital audio from DTS program sources bearing the trademark such as discs, DVD and compact discs, etc. DTS Digital Surround delivers up to 6 channels of transparent audio(which means identical to the original masters) and results in exceptional clarity throughout a true 360 degree sound field. The term DTS is a trademark of DTS Technology, LLC. Manufactured under license from DTS Technology, LLC.

DIGITAL

The Dolby Digital surround format lets you enjoy up to 5.1 channels of digital surround sound from a Dolby Digital program source. If you play DVDs with " " mark, you can enjoy even better sound quality, greater spatial accuracy, and improved dynamic range.

HALL 1

When playing recordings of live music and classic, this mode provides a feeling similar to actually being in a small concert hall.

HALL 2

When playing recordings of live music and classic, this mode provides a feeling similar to actually being in a large concert hall.

THEATER

This mode provides a three dimensional effect similar to that of movie theater.

PRO LOGIC

Use this mode when playing movie or Dolby Digital 2 channel which carries the " " mark. This mode provides the effect of being in a movie theater or live concert house-an effect with an intensity which can only be obtained through DOLBY PRO LOGIC SURROUND. The effect of the front/back/left/right movement of the sound image, as well as the sense of fixed position in the sound image, is much clearer and more dynamic than before.

2CH STEREO

Outputs the sound from the front left and right speakers and subwoofer. Standard two channel (stereo) sources completely bypass the sound field processing. This allows you to play any source using only the front left and right speakers and subwoofer. **You can select 2CH STEREO by pressing BY-PASS on the remote control.**

When PCM indicator is only displayed in the display window:

Each time you press **SOUND MODE** button, the sound mode is changed as the following order;

PRO LOGIC → HALL1 → HALL2 → THEATER

Tip

You can select SURROUND OFF (2CH STEREO) mode by pressing BY PASS button.

When DVD is inserted.

You can change the sound mode of DVD (Dolby Digital, DTS, PRO LOGIC, etc) by pressing the **AUDIO** button on the remote during playback.
Although the DVD contents differ from disc to disc, the following explains the basic operation when this feature is used.

Each time you press **AUDIO** button, the sound mode of DVD is changed as the following order;

DIGITAL → dts → DIGITAL and PRO LOGIC

Tip

You can set PRO LOGIC mode to Off (2CH STEREO) by pressing BY PASS button and the PRO LOGIC indicator disappears.

For your reference

- **The DVD Receiver memorizes the last mode settings for each source individually.**
- **You can identify the encoding format of program software by looking at its packaging.**
  - Dolby Digital discs are labeled with the logo.
  - Dolby Surround encoded programs are labeled with the logo.
  - DTS Digital Surround discs are marked with DTS.

Notes

- When you play sound tracks with 96kHz sampling frequency, the output signals will be converted to 48kHz (sampling frequency).
- Sound Mode is not applicable when headphone is used.

Sound Level

You can set the sound level of the desired channel.

1 **Press LEVEL.**
The level indicator will appear in the display window.

2 **Press ◄/► to select a desired speaker to set.**
Each time you press the ◄/► button, it is changed as the following order;

FL (Front Left) → C (Center) → FR (Front Right) →
SR (Surround Right) → SL (Surround Left) →
SW (Subwoofer) → FL (Front Left)

- On the 2 channel stereo mode, you can only select the SW (Subwoofer).

3 **Press ▲/▼ to adjust the sound level of the selected channel. (-6dB ~ +6dB)**

4 **Repeat step 2-3 and adjust the sound level of the other channels.**

5 **If setting is complete, press LEVEL.**

1-2. PREPARATION

Press "DVD/CD" button on the remote control to select CD/DVD playback mode. Put a DVD disc on the tray and press OPEN/CLOSE.

General Explanation

This manual gives the basic instructions for operating the DVD Receiver. Some DVDs require specific operation or allow only limited operation during playback. When this occurs, the symbol ⃠ appears on the TV screen, indicating that the operation is not permitted by the DVD Receiver or is not available on the disc.

On-Screen Display

The general playback status can be displayed on the TV screen. Some items can be changed on the menu.

On-screen display operation

1 **Press DISPLAY during playback.**

2 **Press ▲ or ▼ to select an item.**
The selected item will be highlighted.

3 **Press ◄ or ► to change the setting of an item.**
The number buttons can be also be used for setting numbers (e.g., title number). For some functions, press ENTER to execute the setting.

Temporary Feedback Field Icons

Repeat Title

Repeat Chapter

Repeat Track (non-PBC Video CDs only)

Repeat All Tracks (non-PBC Video CDs only)

Repeat A-B

Repeat Off

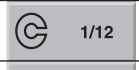
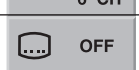
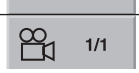
Resume play from this point

⃠ Action prohibited or not available

Notes

- Some discs may not provide all of the features on the on-screen display example shown below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

DVD

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Title Number		**Displays the current title number and total number of available titles, and** skips to a desired title number.	◄/►, or Numbers, ENTER
Chapter Number		**Displays the current chapter number and total number of available chapters, and** skips to a desired chapter number.	◄/►, or Numbers, ENTER
Time search		**Displays the elapsed playing time, and** searches a point identified by its elapsed time.	Numbers, ENTER
Audio language and Digital Audio Output mode		**Displays the current audio soundtrack language, encoding method and channel number, and** any changes you make to the setting.	◄/►
Subtitle language		**Displays the current subtitles language, and** any changes you make to the setting.	◄/►
Angle		**Displays the current angle number and total number of angles, and** any changes you make to the angle number.	◄/►

VCD2.0 **VCD1.1**

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Track Number		**Displays the current track number, total number of tracks and PBC On mode, and** skips to the desired track number.	◄/►,or Numbers, ENTER
Time		**Displays the elapsed playing time (Display only)**	–
Audio Channel		**Displays the audio channel, and** changes you make to the audio channel.	◄/►

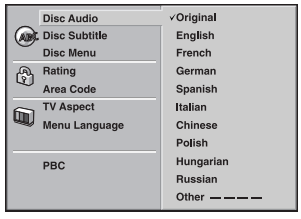
1-2. PREPARATION

Initial Settings

You can set your own Personal Preferences on the player.

Initial Settings General Operation

1 **Press SETUP.**
The setup menu appears.



2 **Press ▲/▼ to select the desired item.**
The screen will show the current setting for the selected item, as well as alternate setting(s).

3 **While the desired item is selected, press ►, then ▲/▼ to select the desired setting.**

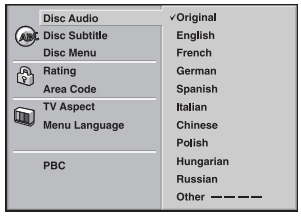
4 **Press ENTER to confirm your selection.**
Some items require additional steps.

5 **Press SETUP, RETURN or PLAY to exit the setup menu.**

Language

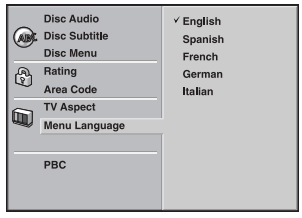
Disc Language DVD

Select a language for the disc's Menu, Audio and Subtitle.
Original : The original language set for the disc is selected.
Other : To select another language, press number buttons to enter the corresponding 4-digit number according to the language code list on page 27. If you enter the wrong language code, press CLEAR.



Menu Language

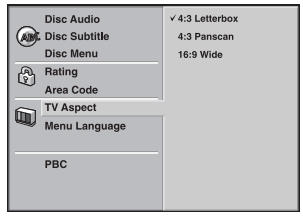
Select a language for the setup menu. This is the menu you see when you press SETUP.



Picture

TV Aspect DVD

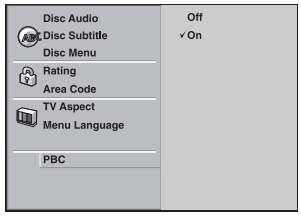
4:3 Letterbox: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.
4:3 Panscan: Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Either sides of the picture are cut off.
16:9 Wide: Select when a 16:9 wide TV is connected.



PBC VCD2.0

PBC On/Off
Set Playback Control (PBC) to On or Off

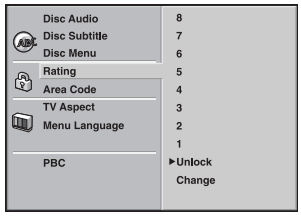
On: Video CDs with PBC are played back according to the PBC.
Off: Video CDs with PBC are played back in the same way Audio CDs.



Parental Control

Rating DVD

Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country dependent. The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes.



1 **Select "Rating" on the Setup menu using the ▲ and ▼ buttons.**

2 **While "Rating" is selected, press ►.**

3 **When you have not entered a password yet;**
Enter a 4-digit password using the numerical buttons to create a personal 4-digit security password, then press ENTER. And enter the 4-digit password again and press ENTER to verify.
When you have already entered a password;
Enter a 4-digit password using the numerical buttons to confirm the personal 4-digit security password, then press ENTER.

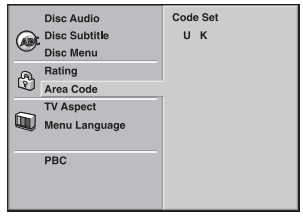
If you make a mistake before pressing ENTER, press CLEAR and enter 4-digit security password again.

4 **Select a rating from 1 to 8 using the ▲/▼ buttons. One (1): DVD software for adults cannot be played back. Eight (8): All DVD software can be played back. The limitations is more severe as the level number is lower.**
Unlock: If you select Unlock, Parental Control is not active. The disc will play in full.
Ratings 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the player, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.

5 **Press ENTER to confirm your rating selection, then press SETUP to exit the menu.**

Area Code DVD

Enter the code of a area whose standards were used to rate the DVD video disc, referring to the list (See "Area Code List", page 28.).



1 **Select Area Code using the ▲ / ▼ buttons on the setup menu.**

2 **While Area Code is selected, press ►.**

3 **Follow step 3 of "Rating" on left.**

4 **Select the first character using the ▲/▼ buttons.**

5 **Shift the cursor using ◄/► buttons and select the second character using ▲/▼ buttons.**

6 **Press ENTER to confirm your country code selection, then press SETUP to exit the menu.**

Note
Confirmation of the 4-digit password is necessary when the code is changed (see "Changing the 4-digit code" below).

Changing the 4-digit code

1 Follow steps 1-2 as shown above to the left (Rating).
2 Enter the old code, then press ENTER.
3 Select Change using the ▲/▼ buttons then press ENTER.
4 Enter the new 4-digit code, then press ENTER.
5 Enter exactly the same code a second time and verify by pressing ENTER.
6 Press SETUP to exit the menu.

If you forget your 4-digit code

If you forget your password, to clear the current password, follow the procedure below.

1 Press SETUP to display the setup menu.
Move the cursor down to "Rating".
2 Use the Number buttons to enter "210499."
The cursor will move up to "Disc Audio" automatically.
The 4-digit password is cleared.
3 Enter a new code as shown above to the left (Rating).

1-3. OPERATION

■ Operation with DVD and Video CD

Playing a DVD and Video CD

Getting to play DVD VCD2.0 VCD1.1

- Turn on the TV and select the video input source connected to the DVD receiver.
- When you want to enjoy the sound of discs or from the audio system, turn on the audio system and select the input source connected to the DVD receiver.

1 **Press OPEN/CLOSE to open the disc tray.**

2 **Load your chosen disc in the tray, with the label facing up.**
When a double-sided DVD is inserted, make sure the side you want to play is facing up.

3 **Press OPEN/CLOSE to close the tray.**
READING appears on the TV screen, and playback starts automatically. If playback does not start, press PLAY.
In some cases, the disc menu might appear instead.

When the menu screen is displayed

The menu screen may be displayed first after loading a DVD or Video CD which contains a menu.

DVD

Use the ◄ ► ▲ ▼ buttons to select the title/chapter you want to view, then press ENTER to start playback.
Press TOP MENU or MENU to return to the menu screen.

VCD2.0

- Use the number buttons to select the track you want to view.
  Press RETURN to return to the menu screen.
- Menu setting and the exact operating procedures for using the menu may differ depending on the disc. Follow the instructions on the each menu screen. You also may set PBC to Off under setup. See page 16.

Notes

– If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see "Parental Control", on page 17).
– DVDs may have a region code.
– Your player will not play discs that have a region code different from your player. The region code for this player is 2 (two).

General Features

Note

Unless stated, all operations described are based on remote control use. Some operations can be carried out using the setup menu.

Moving to another TITLE DVD

When a disc has more than one title, you can move to another title as follows:

- Press DISPLAY when playback is stopped, then press the appropriate numerical button (0-9) to select a title number.

Moving to another CHAPTER/TRACK

DVD VCD1.1

When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:

- Press SKIP ⏮ or ⏭ briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press SKIP ⏮ twice in quick successions to step back to the previous chapter/track.
- To go directly to any chapter during DVD playback, press DISPLAY. Then, press ▲/▼ to select C (chapter) (or for a Video CD, select T for track). Then, enter the chapter/track number using the numerical buttons (0-9).

Note

For two-digit numbers, press the buttons in rapid succession.

Slow Motion DVD VCD2.0 VCD1.1

1 Press SLOW SCAN ▲ or ▼ during playback.
The player will enter SLOW mode.
2 Use the SLOW SCAN ▲ or ▼ to select the required speed: ◄❙ 1/16, ◄❙ 1/8, ◄❙ 1/4 or ◄❙ 1/2 (backward), or ❙► 1/16, ❙► 1/8, ❙► 1/4 or ❙► 1/2 (forward).
3 To exit slow motion mode, press PLAY.

Note

Slow motion playback in reverse is not applicable for Video CD.

General Features (cont'd)

Still Picture and Frame-by-frame playback

DVD VCD2.0 VCD1.1

1 Press PAUSE during playback.
The player will now go into PAUSE mode.
2 You can advance the picture frame by frame by pressing PAUSE repeatedly on the remote control.

Search DVD VCD2.0 VCD1.1

1 Press and hold SKIP ⏮ or ⏭ for about two seconds during playback until "PLAY x2" appears on the top right corner of your TV screen.
The player will now go into SEARCH mode.
2 Repeat Step 1 to select the required speed: ◀◀ X2, ◀◀ X4, ◀◀ X16, ◀◀ X100 (backward) or ▶▶ X2, ▶▶ X4, ▶▶ X16, ▶▶ X100 (forward).
With a Video CD, the Search speed changes: ◀◀ X2, ◀◀ X4, ◀◀ X8 (backward) or ▶▶ X2, ▶▶ X4, ▶▶ X8 (forward).
3 To exit SEARCH mode, press PLAY.

Repeat DVD VCD2.0 VCD1.1

DVD Video Discs - Repeat Chapter/Title/Off

1 To repeat the currently playing chapter, press REPEAT.
The Repeat Chapter icon appears on the TV screen.
2 To repeat the title currently playing, press REPEAT a second time.
The Repeat Title icon appears on the TV screen.
3 To exit Repeat mode, press REPEAT a third time.
The Repeat Off icon appears on the TV screen.

Video CDs - Repeat Track/All/Off

1 To repeat the track currently playing, press REPEAT.
The Repeat Track icon appears on the TV screen.
2 To repeat the disc currently playing, press REPEAT a second time.
The Repeat All icon appears on the TV screen.
3 To exit Repeat mode, press REPEAT a third time.
The Repeat Off icon appears on the TV screen.

Note
On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Repeat function. See page 16.

Repeat A-B DVD VCD2.0 VCD1.1

To repeat a sequence in a title:

1 Press REPEAT A-B at your chosen starting point.
A- appears briefly on the TV screen.
2 Press REPEAT A-B again at your chosen end point.
A-B appears briefly on the TV screen, and the repeat sequence begins (a-b repeat appears on the player's display).
3 To cancel the sequence, press REPEAT A-B.

Time Search DVD

The Time Search function allows you to start playing at any chosen time on the disc.

1 Press DISPLAY during playback. The on-screen display appears on the screen.
The Time Search box shows the elapsed playing time of the current disc.
2 Within 10 seconds, press ▲/▼ to select the Time Search icon in the on-screen display.
The "-:--:--" appears in the Time Search box.
3 Within 10 seconds, use the numerical buttons to enter the required start time. Enter hours, minutes and seconds from left to right in the box.
If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers.
4 Within 10 seconds, press ENTER to confirm the start time.
Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.

General Features (cont'd)

Zoom DVD VCD2.0 VCD1.1

The Zoom function allows you to enlarge the video image and to move through the enlarged image.

1 Press ZOOM during playback or still playback to activate the Zoom function.
If you press ZOOM repeatedly, the magnification level increases up to six times.

2 Use the ◄ ► ▲ ▼ buttons to move through the zoomed picture.

3 Press CLEAR to resume normal playback or return to the paused image.

Note

- The zoom function may not work for some DVDs.
- The zoom function may not work on multi-angle scenes.

Marker Search DVD VCD2.0 VCD1.1

You can start playback from a memorized point. Up to nine points can be memorized.
To enter a mark, follow these steps.

1 During disc playback, press MARKER when playback reaches the spot that you want to memorize.
The Marker icon will appear on the TV screen briefly.

2 Repeat step 1 to enter up to nine Marker points on a disc.

To Recall a Marked Scene

1 During disc playback, press SEARCH.
The MARKER SEARCH menu will appear on the screen.

2 Within 10 seconds, press NUMBER buttons to select a Marker number that you want to recall.

3 Press ENTER.
Playback will start from the Marked scene.

4 To remove the MARKER SEARCH menu, press SEARCH.

To clear a Marked Scene

1 During disc playback, press SEARCH.
The MARKER SEARCH menu will appear on the screen.

2 Press ◄/► to select the Marker number that you want to erase.

3 Press CLEAR.
The Marker number will be erased from the list.

4 Repeat steps 2 and 3 to erase additional Marker numbers.

5 To remove the MARKER SEARCH menu, press SEARCH.

Special DVD Features DVD

Checking the contents of DVD Video discs: Menus

DVDs may contain menus that allow you to access special features. To use the disc menu, press MENU. Then, press the appropriate numerical button to select an item. Or, use the ◄ ► ▲ ▼ buttons to highlight your selection, then press ENTER.

Top Menu DVD

1 Press TOP MENU.
If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.

2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title.

3 To remove the title menu, press TOP MENU again.

Disc Menu DVD

1 Press MENU.
The disc menu is displayed.

2 To remove the disc menu, press MENU again.

Camera Angle DVD

If the disc contains sequences recorded from different camera angles, the angle icon blinks on the display. You can then change the camera angle if you wish.

- Press ANGLE repeatedly during playback to select a desired angle.
The number of the current angle appears on the display.

Changing the Audio Language

VCD2.0 VCD1.1

Press AUDIO repeatedly during playback to hear a different audio channel (STEREO, LEFT or RIGHT).

Subtitles DVD

Press S-TITLE repeatedly during playback to see the different subtitle languages.

Note

If ⃠ appears, the feature is not available on the disc.

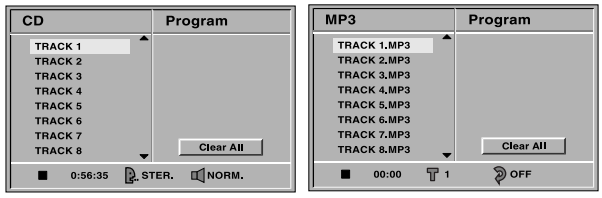
1-3. OPERATION

■ Operation with Audio CD and MP3 Disc

Playing an Audio CD and MP3 disc

The DVD Receiver can play MP3 format recordings on CD-ROM, CD-R or CD-RW discs.
Before playing MP3 recordings, read the notes of MP3 Recordings on page 25.

1 **Insert a disc and close the tray.**
The menu appears on the TV screen.



Audio CD menu **MP3 menu**

2 **Press ▲/▼ to select a track then press PLAY.**
Playback starts.
During playback, the current track's elapsed playing time will appear on the display.
Playback will stop at the end of the disc.

3 **To stop playback at any other time, press STOP.**

Pause CD MP3

1 Press PAUSE during playback.

2 To return to playback, press PLAY or press PAUSE again.

Moving to another Track CD MP3

- Press SKIP ⏮ or ⏭ briefly during playback to go to the next track or to return to the beginning of the current track.
- Press SKIP ⏮ twice in quick successions to step back to the previous chapter/track.
- In case of audio CD, to go directly to any track, enter the track number using the numerical buttons (0-9) during playback.

Repeat Track/All/Off CD MP3

1 To repeat the track currently playing, press REPEAT.
The Repeat Track icon appears on the menu screen.

2 To repeat all tracks of disc in the unit, press REPEAT a second time.
The Repeat All icon appears on the menu screen.

3 To exit Repeat mode, press REPEAT a third time.
The Repeat Off icon appears on the menu screen.

Search CD

1 Press and hold SKIP ⏮ or ⏭ for about two seconds during playback until "►" changes to "►► X2" on the lower left corner of the OSD.
The player will now go into SEARCH mode.

2 Repeat Step 1 repeatedly to select the required speed: ◄◄ X2, ◄◄ X4, ◄◄ X8 (backward) or ►► X2, ►► X4, ►► X8 (forward).

3 Search speed and direction are indicated on the menu screen.

4 To exit SEARCH mode, press PLAY.

Repeat A-B CD

To repeat a sequence.

1 During disc playback, press REPEAT A-B at your chosen starting point.
The Repeat icon and "A -" appears on the menu screen.

2 Press REPEAT A-B again at your chosen end point.
The Repeat icon and "A B" appears on the menu screen, and the sequence begins to play repeatedly.

3 To exit the sequence and return to normal play, press REPEAT A-B again.
The Repeat icon and "OFF" appears on the menu screen.

Changing the Audio Channel CD

Press AUDIO repeatedly during playback to hear a different audio channel (STEREO, LEFT or RIGHT).

■ Programmed Playback CD MP3 VCD2.0 VCD1.1

Programmed Playback with Audio CD and MP3 Disc

Program allows you to store your favourite tracks for a particular disc in the player memory.

Program can contain 32 tracks (Audio CD) or 60 tracks (MP3 disc).

1 Insert the disc and close the tray.
The menu is displayed on the TV screen.

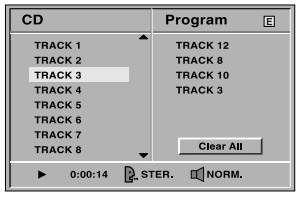
2 Press PROGRAM during playback or in the stop mode to enter the Program Edit mode.
The E mark will appear to the right of the word Program on the right side of the menu screen.

Note
Press RETURN or PROGRAM to exit the Program Edit mode; the E mark will disappear.

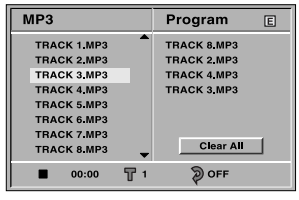
3 Press ▲/▼ to select a track then press ENTER to place the selected track on the Program list.

4 Repeat step 3 to place additional tracks on the Program list.

Audio CD menu



MP3 menu



5 Press ►.
The programmed track you selected last is highlighted on the program list.

6 Press ▲/▼ to select the track you want to start playing.
Press TOP MENU to move to the next page.
Press MENU to move to the previous page.

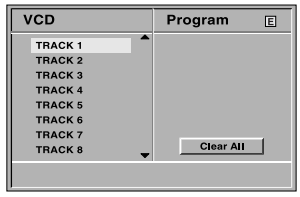
7 Press PLAY to start.
Playback begins in the order in which you programmed the tracks and "PROGRAM" appears on the menu screen. Playback stops after all of the tracks on the Program list have played once.

Programmed Playback with Video CD

Note
On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Program function. See page 16.

1 Insert Video CD and close the tray.

2 Press PROGRAM while playback is stopped.
The VCD Program menu will appear.



Note
Press RETURN or PROGRAM to exit the Program menu.

3 Follow steps 3-7 of "Programmed Playback with Audio CD and MP3 Disc" on left.

Repeat Programmed Tracks

- To repeat the track currently playing, press REPEAT.
  The Repeat Track icon appears on the menu screen.
- To repeat all tracks of program list, press REPEAT a second time.
  The Repeat All icon appears on the menu screen.
- To exit Repeat mode, press REPEAT a third time.
  The Repeat Off icon appears on the menu screen.

Erasing a Track from Program List

1 Press PROGRAM during playback or in the stop mode to enter the Program Edit mode.
The E mark will appear.
2 Press ► to move to the Program list.
3 Use ▲/▼ to select the track that you wish to erase from the Program list.
4 Press CLEAR.
The track will be erased from the Program list.

Erasing the Complete Program List

1 Follow steps 1-2 of "Erasing a Track from Program List" as above.
2 Use ▲/▼ to select "Clear All", then press ENTER.
The complete Program for the disc will be erased.
The programs are also cleared when the disc is removed.

To resume normal playback from programmed playback

Press and hold PROGRAM for 3 seconds until "PROGRAM" indicator disappears in the display window.

1-3. OPERATION

■ Operation with Radio

Presetting the radio stations

You can preset 30 stations for FM and AM. Before tuning, make sure that you have tuned down the volume.

1 Press FUNCTION on the front panel repeatedly or FM/AM on the remote control until the FM or AM appears in the display window.

2 And then every time you press FM/AM, FM and AM changes alternately.

3 Press and hold TUNING/SKIP ⏮ ◀◀ or ▶▶ ⏭ on the front panel for about two seconds until the frequency indication starts to change, then release.
Scanning stops when the DVD Receiver tunes in a station. “TUNED” and “STEREO” (for stereo program) appear in the display window.

Note
“TUNED” only appears when the signal is FM and STEREO.

4 Press MEMORY.
A preset number will flash in the display window.

5 Press TUNING/SKIP ⏮ ◀◀ or ▶▶ ⏭ on the front panel to select the preset number you want.

6 Press MEMORY again.
The station is stored.

7 Repeat steps 3 to 6 to store other stations.

To tune in a station with a weak signal

Press TUNING/SKIP ⏮ ◀◀ or ▶▶ ⏭ repeatedly in step 3 to tune in the station manually.

To clear all the memorized stations

Press and hold MEMORY for about three seconds and “CLEAR ALL” is appeared in the display window and then press MEMORY again, the stations are cleared.

- If you have accidentally entered into the "CLEAR ALL" mode and you do not wish to clear the memory, do not press any key. After a few seconds, the "CLEAR ALL" display will go off by itself and change to normal mode.

Note
If all stations have already been entered, FULL message will appear in the display window for a moment and then a preset number will flash. To change the preset number, follow the steps 5-6 as above.

Listening to the radio

Preset radio stations in the DVD receiver’s memory first (see “Presetting radio stations” on the left side).

1 Press FM/AM until AM or FM appears in the display window.
The last received station is tuned in.

2 Press PRESET ◀◀ / ▶▶ repeatedly to select the preset station you want.
Each time you press the button, the DVD receiver tunes in one preset station at a time.

3 Adjust the volume by rotating VOLUME on the front panel or by pressing VOLUME + or - on the remote control repeatedly.

To turn off the radio

Press POWER to turn the DVD receiver off or select another function mode (DVD/CD, VIDEO 1 or VIDEO 2).

To listen to non-preset radio stations

- Use manual or automatic tuning in step 2.
- For manual tuning, press TUNING/SKIP ⏮ ◀◀ or ▶▶ ⏭ on the front panel repeatedly.
- For automatic tuning, press and hold TUNING/SKIP ⏮ ◀◀ or ▶▶ ⏭ for about two seconds on the front panel.

To select a preset radio station directly

You can use the number buttons on the remote control to select a preset radio station directly.
For example, to listen preset station 4, press 4 on the remote control. To listen preset station 19, press 1 then 9 (within 3 seconds).

For your reference

- **If an FM program is noisy**
  Press MONO/ST. on the front panel so that “STEREO” disappears in the display window. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect.
- **To improve reception**
  Reorient the supplied antennas.

Reception of RDS (Radio Data System) Stations

RDS (Radio Data System) is a system gradually being introduced on FM in many countries, where by an inaudible stream of data is transmitted in addition to the normal radio signal. This data contains various information including station/ transmitter identification, traffic information and a list of alternative frequencies for the radio station being received.

1 **Press FUNCTION to select FM or AM and then press FM/AM to select FM.**

2 **Select a desired station by pressing the PRESET ◀◀ or ▶▶ .**
When the RDS transmission is received, the display shows the program
service name (PS) after RDS indicator appears.

Note
- RDS is only available for FM reception.
- The PS (PROGRAM SERVICE) NAME is displayed automatically when a RDS station is received.

■ Additional Information

Sleep Timer Settings

You can set the DVD receiver to turn off automatically at a specified time.

1 **Press SLEEP to set the desired sleep time.**
The SLEEP indicator and sleep time appears in the display window.

2 **Each time you press SLEEP, the setting changes in the following order.**
SLEEP 120 →90 →60 →50 →40 →30 →20 →10 →OFF

Notes
- **You can check the time remaining before the DVD receiver turns off.**
  Press SLEEP. The remaining time appears in the display window.

Dimmer

This function will change the brightness of the FIP display on the front panel during Power-on status.
Press the DIMMER repeatedly.

Mute

Press MUTE to mute your unit.
You can mute your unit in order, for example, to answer the telephone, “MUTE” indicator flashes in the display window.

Using Headphone Jack

Connect a stereo headphone plug (∅3.5mm) into the **PHONES connector**.
The speakers are automatically disconnected when you plug in the headphones (not supplied).

Note
When you use the headphones, keep the volume at a moderate level. If you use the headphones continuously with high volume sound, it may cause hearing damage.

Selecting input source

You can use VCRs or other units connected to the VIDEO1 or VIDEO2 connectors .
Refer to the owner’s manual supplied with the unit for farther information on the operation.
Press VIDEO1 or VIDEO2 repeatedly on the remote control to select the desired input source.
Each time you press this button, the mode of the function changes in the following sequence:

- **VIDEO1 :** Each time VIDEO1 is pressed, the input source toggles between VIDEO1 ANALOG and VIDEO1 DIGITAL. (a) Select VIDEO1 ANA if sound input is connected to RCA jacks of VIDEO1.(b) Select VIDEO1 DIG if sound input is connected to OPTICAL IN connector. Please note that there is no sound when VIDEO1 DIG is selected and there is no connection to OPTICAL IN.
- **VIDEO2 :** Similarly, select each time VIDEO2 is pressed, the input source toggles between VIDEO2 ANA or VIDEO DIG. Select VIDEO2 ANA if the audio input is connected by RCA jacks.

Note
- The Optical input function is available only when the other unit’s Sampling Frequency is 32 ~ 48kHz.

Last Condition Memory

DVD CD VCD1.1

This player memorizes the last condition for the last disc you have watched. Settings remain in memory even if you remove the disc from the player or switch off the player. If you load a disc that has its settings memorized, the latest stop position is automatically recalled.

Notes

– Settings are stored in memory for use any time.
– This player does not memorize settings of a disc if you switch off the player before commencing to play it.

Screen Saver

The screen saver picture appears when you leave the DVD Receiver in stop mode for about five minutes.

Video Mode Setting DVD VCD2.0 VCD1.1

- With certain discs, the playback picture may be flickering or Dot Crawl is shown on straight lines. That means Vertical interpolation or De-interlace is not perfectly matched with the disc. In this case, the picture quality may be improved by changing the video mode.
- To change the video mode, press and hold DISPLAY about 3 seconds during disc playback. The new video mode number selected is displayed on the TV screen. Check whether the video quality has improved. If not, repeat the above procedure until picture quality is improved.
- Video mode sequence:
  Video1 → Video2 → Film → Adapt → Auto.
- If you turn off the power, the video mode will return to initial default state (Auto).

Detailed Description of each Video Mode

Auto : The source material of the DVD video (film material or video material) is determined from disc information.

Video1: Suitable for playing video based content with comparatively little motion.

Video2: Suitable for playing video based content with comparatively more motion.

Film: Suitable for playing film based content or video based material recorded by the progressive scan method.

Adapt: Determines the appropriate mode (film or video) during disc playback, and automatically selects the proper mode. Suitable for playing a disc comprised of film and video based content.

Notes on MP3 Discs

About MP3

- An MP3 file is audio data compressed by using MPEG1, the audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files".
- The player can not read an MP3 file that has a file extension other than ".mp3".
- The player can not read a fake MP3 file that has a file extension ".mp3".

MP3 disc compatible with this player is limited as follows:

1. Sampling Frequency / only at 44.1kHz
2. Bit rate / within 96-192kbps
3. CD-R physical format should be "ISO 9660"
4. If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3 files. We therefore recommend that you use "Easy-CD Creator", which creates an ISO9660 file system.
5. A single session disc requires MP3 files in the first track. If there is no MP3 file in the 1st track, it cannot playback MP3 files. If you wish to playback MP3 files, format all the data in the disc or use a new one.
6. We do not recommend using CD-RW discs. Please use finished CD-R discs only.
7. File names should be named using 8 letters or less and must incorporate ".mp3" extension
   e.g. "********.MP3".
8. Do not use special letters such as "_?!><+*}{`[@];:\/.," etc.
9. Total number of files on the disc should be less than 200.
10. Use 74 minute CD-R discs (650M), Do not use 80 minute CD-R (700M) software

This DVD receiver requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 files).

Customers should also note that permission is required in order to download MP3 files and music from the Internet. TOSHIBA cannot grant such permission. Permission should always be sought from the copyright owner.

1-4. REFERENCE

■ Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

Symptom	Cause	Correction
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
The power is on, but the DVD receiver does not work.	• No disc is inserted.	• Insert a disc. (Check that the DVD or, audio CD indicator in the display window is lit.)
No picture.	• The TV is not set to receive DVD signal output.	• Select the appropriate video input mode on the TV so the picture from the DVD receiver appears on the TV screen.
	• The video cable is not connected securely.	• Connect the video cable into the jacks securely.
	• The connected TV power is turned off.	• Turn on the TV.
No sound.	• The equipment connected with the audio cable is not set to receive DVD signal output.	• Select the correct input mode of the audio receiver so you can listen to the sound from the DVD receiver.
	The audio cables are not connected securely.	Connect the audio cable into the jacks securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The Digital Audio Output is set to the wrong position.	• Set the Digital Audio Output to the correct position, then turn on the DVD receiver again by pressing POWER.
The playback picture is poor.	• The disc is dirty.	• Clean the disc.
The DVD receiver does not start playback.	• No disc is inserted.	• Insert a disc. (Check that the DVD, or audio CD indicator in the DVD display is lit.)
	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type, color system and Regional code.)
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	• The disc is dirty.	• Clean the disc.
	• The Rating level is set.	• Cancel the Rating function or change the rating level.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor of the DVD receiver.	• Point the remote control at the remote sensor of the DVD receiver.
	• The remote control is too far from the DVD receiver.	• Operate the remote control within about 23 ft (7 m).
	• There is an obstacle in the path of the remote control and the DVD receiver.	• Remove the obstacle.
	• The batteries in the remote control are exhausted.	• Replace the batteries with new ones.

1-4. REFERENCE

■ Language Code List

Enter the appropriate code number for the initial settings “Disc Audio”, “Disc Subtitle” and/or “Disc Menu” (See page 16).

Code	Language	Code	Language	Code	Language	Code	Language
6565	Afar	7079	Faroese	7678	Lingala	8375	Slovak
6566	Abkhazian	7082	French	7679	Laothian	8376	Slovenian
6570	Afrikaans	7089	Frisian	7684	Lithuanian	8377	Samoan
6577	Ameharic	7165	Irish	7686	Latvian, Lettish	8378	Shona
6582	Arabic	7168	Scots Gaelic	7771	Malagasy	8379	Somali
6583	Assamese	7176	Galician	7773	Maori	8381	Albanian
6588	Aymara	7178	Guarani	7775	Macedonian	8382	Serbian
6590	Azerbaijani	7185	Gujarati	7776	Malayalam	8385	Sudanese
6665	Bashkir	7265	Hausa	7778	Mongolian	8386	Swedish
6669	Byelorussian	7273	Hindi	7779	Moldavian	8387	Swahili
6671	Bulgarian	7282	Croatian	7782	Marathi	8465	Tamil
6672	Bihari	7285	Hungarian	7783	Malay	8469	Telugu
6678	Bengali; Bangla	7289	Armenian	7784	Maltese	8471	Tajik
6679	Tibetan	7365	Interlingua	7789	Burmese	8472	Thai
6682	Breton	7378	Indonesian	7865	Nauru	8473	Tigrinya
6765	Catalan	7383	Icelandic	7869	Nepali	8475	Turkmen
6779	Corsican	7384	Italian	7876	Dutch	8476	Tagalog
6783	Czech	7387	Hebrew	7879	Norwegian	8479	Tonga
6789	Welsh	7465	Japanese	7982	Oriya	8482	Turkish
6865	Danish	7473	Yiddish	8065	Panjabi	8484	Tatar
6869	German	7487	Javanese	8076	Polish	8487	Twi
6890	Bhutani	7565	Georgian	8083	Pashto, Pushto	8575	Ukrainian
6976	Greek	7575	Kazakh	8084	Portuguese	8582	Urdu
6978	English	7576	Greenlandic	8185	Quechua	8590	Uzbek
6979	Esperanto	7577	Cambodian	8277	Rhaeto-Romance	8673	Vietnamese
6983	Spanish	7578	Kannada	8279	Rumanian	8679	Volapük
6984	Estonian	7579	Korean	8285	Russian	8779	Wolof
6985	Basque	7583	Kashmiri	8365	Sanskrit	8872	Xhosa
7065	Persian	7585	Kurdish	8368	Sindhi	8979	Yoruba
7073	Finnish	7589	Kirghiz	8372	Serbo-Croatian	9072	Chinese
7074	Fiji	7665	Latin	8373	Singhalese	9085	Zulu

1-4. REFERENCE

■ Area Code List

Enter the appropriate code number for the initial setting “Area Code” (See page 17).

Code	Area
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaidjan
BA	Bosnia-Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Ivory Coast
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CS	Former Czechoslovakia
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
FM	Micronesia
FO	Faroe Islands
FR	France
FX	France (European Territory)
GA	Gabon
GB	Great Britain
GD	Grenada
GE	Georgia
GF	French Guyana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe (French)
GQ	Equatorial Guinea
GR	Greece
GS	S. Georgia & S. Sandwich Isls.
GT	Guatemala
GU	Guam (USA)
GW	Guinea Bissau
GY	Guyana
HK	Hong Kong
HM	Heard and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia6
KI	Kiribati
KM	Comoros
KN	Saint Kitts & Nevis Anguilla
KP	North Korea
KR	South Korea
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Laos
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libya
MA	Morocco
MC	Monaco
MD	Moldavia
MG	Madagascar
MH	Marshall Islands
MK	Macedonia
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique (French)
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia (French)
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	Polynesia (French)
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn Island
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Reunion (French)
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen Islands
SK	Slovak Republic
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Saint Tome and Principe
SU	Former USSR
SV	El Salvador
SY	Syria
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tadjikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania
UA	Ukraine
UG	Uganda
UK	United Kingdom
UM	USA Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State
VC	Saint Vincent & Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (USA)
VN	Vietnam
VU	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

1-4. REFERENCE

■ Specification

[General]	Power supply	AC 220-240V, 50/60Hz	
	Power consumption	70 W	
	Mass	4.6 kg	
	External dimensions (W x H x D)	360 x 70 x 340 mm	
	Operating conditions	Temperature: 5°C to 35°C, Operation status: Horizontal	
	Operating humidity	5% to 90%	
[CD/DVD]	Laser	Semiconductor laser, wavelength 650 nm	
	Signal system	PAL 625/50, NTSC 525/60	
	Frequency response (audio)	4 Hz to 20 kHz	
	Signal-to-noise ratio (audio)	More than 75 dB (1 kHz, NOP, 20 kHz LPF/A-Filter)	
	Dynamic range (audio)	More than 70 dB	
	Harmonic distortion (audio)	0.5 % (1 kHz, at 12W position)	
[Video]	Video input	1.0 V (p-p), 75Ω, negative sync., RCA jack	
	Video output	1.0 V (p-p), 75Ω, negative sync., RCA jack	
	S-video output	(Y) 1.0 V (p-p), 75Ω, negative sync., Mini DIN 4-pin x 1 (C) 0.3 V (p-p), 75Ω	
	Component video output	(Y) 1.0 V (p-p), 75Ω, negative sync., RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75Ω	
[Tuner] FM	Tuning Range	87.5 - 108 MHz	
	Intermediate Frequency	10.7 MHz	
	Signal-to Noise Ratio	60 dB	
	Frequency Response	150 - 12,000 Hz	
[Tuner] AM (MW)	Tuning Range	522 - 1,611 kHz	
	Intermediate Frequency	450 kHz	
[Amplifier]	Stereo mode Surround mode **(* Depending on the sound mode settings and the source, there may be no sound output.)**	35W + 35W (8Ω at 1 kHz, THD 10 %) Front: 35W + 35W (THD 10 %) Center*: 35W Surround*: 35W + 35W (8Ω at 1 kHz, THD 10 %) Subwoofer*: 35W (8Ω at 30 Hz, THD 10 %)	
	Inputs	VIDEO 1, VIDEO 2, OPTICAL AUDIO	
	Outputs	VIDEO 1 (AUDIO OUT) : 2 V WOOFER: 2 V PHONES: (32Ω, 0.9W)	
[Speakers]		Satellite Speaker	Passive Subwoofer
	Type	1 Way 1 Speaker	1 Way 1 Speaker
	Impedance	8Ω	8Ω
	Frequency Response	120 - 20,000 Hz	45 - 1,500 Hz
	Sound Pressure Level	83 dB/W (1m)	82 dB/W (1m)
	Rated Input Power	35W	35 W
	Max. Input Power	70 W	70 W
	Net Dimensions (W x H x D)	90 x 125 x 106.5 mm	160 x 350 x 325 mm
	Net Weight	0.65 kg	4.5kg
[Supplied Accessories]	• Audio cable .....1 • Speakers .....6 • Remote control .....1 • AM loop antenna .....1 • RCA-SCART Adaptor 1	• Video cable .....1 • Speaker cables .....5 • Batteries (AAA) .....2 • FM antenna 1	

Designs and specifications are subject to change without notice.